

What is claimed is:

1. A device which is provided with a piezoelectric transducer for driving a liquid drop ejecting head for ejecting a functional liquid by using the piezoelectric transducer comprising:

a memory which corresponds to each address space;  
a controlling section for memorizing an information which relates to an inclination value of a plurality of different line-segmented-waveforms in the memory, reading out the information which relates to the inclination value of line-segmented-waveform from the corresponding memory according to a predetermined readout timing, forming the line-segmented-waveform according to the information which relates to the inclination value, and generating a driving waveform by combining the line-segmented-waveforms;

a driving section for driving the piezoelectric transducer by the driving waveform and ejecting a liquid drop from an ejecting section on the liquid drop ejecting head, wherein

the information which relates to the inclination value contains information for a variation amount of voltage of the line-segmented-waveform per a unit interval;

a plurality of different information for the variation amount of voltage correspond the line-segmented-waveform; and

a plurality of the different information for the variation amount of voltage are stored in each memory.

2. A device which is provided with a piezoelectric transducer for driving a liquid drop ejecting head for ejecting a functional liquid by using the piezoelectric transducer

comprising:

an output section which outputs information which relates to a plurality of different inclination values of the line-segmented-waveform;

a controlling section for forming line-segmented-waveform according to the information which relates to the inclination value which is outputted from the output section and generating a driving waveform by combining the line-segmented-waveforms;

a driving section for driving the piezoelectric transducer by the driving waveform and ejecting a liquid drop from an ejecting section on the liquid drop ejecting head, wherein the output section outputs information which relates to the inclination value which contains information for the variation amount of voltage of the line-segmented-waveform per a unit interval such that a plurality of different information for the variation amount of voltage correspond to the line-segmented-waveform.

3. A driving device for a liquid drop ejecting head according to Claim 1 wherein the line-segmented-waveform are formed by waveforms of which variation amount of voltage becomes smaller nearer an end section of the driving waveform.

4. A driving device for a liquid drop ejecting head according to Claim 1 wherein the driving waveform contains an ejection waveform for ejecting the liquid drop and a micro-vibration waveform for causing a micro-vibration on the piezoelectric transducer such that the liquid drop is not ejected.

5. A device for forming a membrane which is comprising a driving device for the liquid drop ejecting head according to Claim 1 for forming a membrane on an object by ejecting a functional liquid from the liquid drop ejecting head.

6. A device for forming a membrane according to Claim 5 wherein the device for forming a membrane manufactures a color filter.
7. A device for forming a membrane according to Claim 5 wherein the device for forming a membrane manufactures a membrane which becomes a part of an organic electro-luminescent element.
8. A method for driving a liquid drop ejecting head for ejecting a functional liquid comprising steps of:
  - storing information which relates to an inclination value of a plurality of different line-segmented-waveforms in a memory which corresponds to each address space;
  - reading out the information of the inclination value of the line-segmented-waveform from the corresponding memory according to a predetermined readout timing when the address space is designated;
  - forming a line-segmented-waveform according to the information which relates to the inclination value;
  - generating a driving waveform by combining the line-segmented-waveforms; and
  - driving the piezoelectric transducer by the driving waveform and eject the liquid drop from a ejecting section, wherein
    - the information which relates to the inclination value contains information for a variation amount of voltage of the line-segmented-waveform per a unit interval;
    - a plurality of different information for the variation amount of voltage correspond the line-segmented-waveform; and
    - a plurality of the different information for the variation amount of voltage are

stored in each memory.

9. A method for driving a liquid drop ejecting head for ejecting a functional liquid comprising the steps of:

putting out an information of a plurality of different inclination values of line-segmented-waveform;

forming the line-segmented-waveform according to the information of the inclination values which are outputted from the output section;

generating a driving waveform by combining the line-segmented-waveforms;

driving the piezoelectric transducer by the driving waveform; and

ejecting a liquid drop from the ejecting section on the liquid drop ejecting head;

wherein

the information which relates to the inclination value contains information for a variation amount of voltage of the line-segmented-waveform per a unit interval;

a plurality of different information for the variation amount of voltage correspond the line-segmented-waveform.

10. A method for driving a liquid drop ejecting head according to Claim 8 wherein the line-segmented-waveform is formed by waveforms of which variation amount of voltage becomes smaller nearer an end section of the line-segmented-waveform.

11. A method for driving a liquid drop ejecting head according to Claim 8 wherein the driving waveform contains an ejection waveform for ejecting the liquid drop and a micro-vibration waveform for causing a micro-vibration on the piezoelectric transducer such that the liquid drop is not ejected.

12. A method for forming a membrane by using a method for driving a liquid drop ejecting head according to Claim 8.
13. A method for forming a membrane which is used for manufacturing a membrane which becomes a part of a color filter.
14. A method for forming a membrane according to Claim 12 which is used for forming a membrane which becomes a part of an organic electro-luminescent element.
15. An electronic apparatus which is provided with a device which is manufactured by a method for forming a membrane according to Claim 12.
16. A method for manufacturing a device by forming a functional liquid on a predetermined position of a base board by using a method for driving a liquid drop ejecting head according to any one of Claims 8 to 11.